

+

ATTACH

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known

Application Number	09/845,597
Filing Date	April 30, 2001
First Named Inventor	Antoni P Tomsia
Group Art Unit	1775
Examiner Name	Sperty, Arden B.
Attorney Docket Number	IB-1627

(use as many sheets as necessary)

Sheet 1 of 3

Attorney Docket Number	IB-1627
------------------------	---------

[illegible]

RECEIVED
DEC 03 2002
TC 1700

[illegible]

Examiner
Signature

ABSparty

Date _____

Considered

2/10/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**

Please type a plus sign (+) inside this box



PTO/SB/08B (10-96)

Approved for use through 10/31/99. OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 3

Complete if Known

Application Number 09/845,597
Filing Date April 30, 2001
First Named Inventor Antoni P Tomsia
Group Art Unit 1775
Examiner Name Sperty, Arden B.
Attorney Docket Number IB-1627

RECEIVED
DEC 03 2002
TC 1700

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
ABS	11	A.P. TOMSIA ET AL, "New route for Hydroxyapatite coatings on Ti-based human implants," Scripta Met. Et Mat., Vol. 31 (No. 8), p. 995-1000, (1994).	
ABS	12	J.S. MOYA ET AL, "In vitro formation of Hydroxylapatite layer in a MgO-containing glass," J. Mat. Sci. Mat. in Med., Vol. 5 (No. 8), p. 529-532, (1994).	
ABS	13	A PAZO, ET AL, "HA-Bioactive glass composites-high temperature reactivity and in vitro behavior," Scripta Materialia, Vol. 34 (No. 11), p. 1729-1733, (1996).	
ABS	14	A. PAZO ET AL., "Bioactive coatings on Ti and Ti6Al4V alloys for medical applications," Ceramic Microstructures: Control at the Atomic Level, Plenum P. (New York), p. 543-550, (1998).	
ABS	15	A. PAZO ET AL, "Silicate glass coatings on Ti-based implants," Acta Mater., Vol. 46 (No. 7), p. 2551-2558, (1998).	
ABS	16	E. SALZ ET AL., "Bioactive Glass Catings on Ti-based Implants," Trans. 24th Annual Meeeting Societv for Biomaterials, p. 243, (1998).	
ABS	17	M. GOMEZ-VEGA ET AL., "Glass-based coatings for titanium implant alloys," J. Biomet.Mater. Res., p. 549-559, (1999).	
ABS	18	M. GOMEZ-VEGA ET AL., "A multilayer approach to fabricate bioactive glass coatings on Ti alloys," Biomedical Materials: Drug Delivery, Implants and Tissue Engineering, Mater. Res. Soc. Symp. Proc., p. 349-354, (1999).	
ABS	19	D.R. BLOYER ET AL., "Subcritical crack growth of bioactive glasses in simulated body fluid," Biomedical Materials: Drug Delivery, Implants and Tissue Engineering, Mater. Res. Soc. Symp. Proc., p. 355-359, (1999).	
ABS	20	J.M. GOMEZ-VEGA ET AL., "Fabrication and characterization of a bioactive glass coating on titanium implant alloys," Acta Mater., Vol. 47 (No. 15-), p. 4221-4224, (1999).	
ABS	21	J.M. GOMEZ-VEGA ET AL., "Bioactive glass coatings with hydrosyapatite and Bioglass particles on Ti-based implants. I. Processing," Biomaterials, Vol. 21 (No. 2), p. 105-111, (2000).	

Examiner Signature

AB Sperty

Date

Considered

2/10/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box



Approved for use through 10/31/99. OMB 0651-0031
 Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
 Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

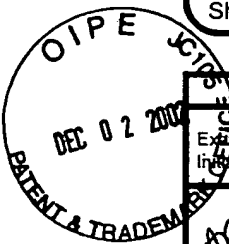
INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 23 of 23

Complete if Known

Application Number 09/845,597
 Filing Date April 30, 2001
 First Named Inventor Antoni P. Tomsia
 Group Art Unit 1775
 Examiner Name Sperty, Arden B
 Attorney Docket Number IB-1627



OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
ABS	22	J.M. GOMEZ-VEGA, "Glass-Hydroxyapatite coatings on titanium-based implants," Ceramic Transactions, accepted for publication. <u>No Date 12/99</u>	
ABS	23	J.M. GOMEZ-VEGA ET AL, "Novel bioactive functionally graded coatings on Ti6A14V," Trans. 6th World Congress for Society for Biomaterials, accepted for publication in Adv. Mater. <u>June 2000</u>	
ABS	24	A. PAZO ET AL, "Glass coatings on Ti implant alloys," J. Dent. Res., Vol. 76 (No. SI), p. 1513, (1997).	
ABS	25	A.P. TOMSIA ET AL., "Graded bioactive coatings on Ti implants," Am. Ceram. Soc. Bull., Vol. 77 (No. 4), p. 191, (1998).	
ABS	26	D.R. BLOYER ET AL., "Environmentally assisted crack growth in novel bioactive glasses," Am. Ceram. Soc. Bull., Vol. 77 (No. 4), p. 190, (1998).	
ABS	27	J.M. GOMEZ-VEGA ET AL., "Layered glass coatings on Ti implants," J. Dent. Res., Vol. 77 (No. SI), p. A-17, (1998).	
ABS	28	D.R. BLOYER ET AL., "Stress Corrosion Crack Growth in Bioactive Glass," J. Dent. Res., Vol. 78 (No. SI), p. 177, (1999).	
ABS	29	J.M. GOMEZ-VEGA ET AL., "Graded Bioactive Glass Coatings on Ti6A14V," J. Dent. Res., Vol. 78 (No. SI), p. 178, (1999).	

RECEIVED

DEC 03 2002

TC 1700

Examiner Signature

ABS Sperty

Date

Considered

2/10/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.